



REF3AWIAT IN PEDIATRIC DOSES

[Document subtitle]



[DATE]

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HELP PEOPLE AND ALLAH WILL HELP YOU

Anti-Pyretics

***paracetamol** → 10-15 mg / kg / dose

Cetal 250 syrup	Wt/4 cm	Every 6- 8h
Cetal , pyral drops	2 drops / kg	Every 6- 8h
Tempra , abimol syrup	Wt /2 cm	Every 6- 8h
Perfalgan(1000mg/100ml	*<10kg→ 3/4cm / kg *>10kg→ 1.5cm / kg	Every 6- 8h

***Ibuprofen** → 10-15 mg / kg / dose

Flabu drops	2 drops / kg	Every 6- 8h
Brufen , Ultrafen syrup	Wt /2 cm	Every 6- 8h
Contafever n syrup	Wt/4 cm	Every 6- 8h
Marcofen sup	(100,300,500 mg)	Every 6- 8h

***Combination () ibuprofen & paracetamol**

Megafen syrup	Wt /2 cm	Every 6- 8h
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***Declophenac** → 0.5 -1 mg / kg / dose

Dolphin k,Cataflam drops	2 drops / kg	Every 6- 8h
Catafly syrup (10mg/5ml)	Wt /3 cm	Every 6- 8h
Dolphin sup	(12.5 , 25 mg)	Every 12h
Declophen amp	1 cm / 20 kg	Better once

***ketoprofen** → 0.5 -1 mg / kg / dose

Ketofan susp	Wt /3 cm	Every 6- 8h
Ketofan amp (100mg/2ml)		

Anti-biotics

***Ampicillin sulbactam**

- 150 mg/kg/day IV
- Dose is doubled in meningitis
- 25-50 mg/kg/day PO

Unasyn, Unictam, Sigmacyc susp (250mg/5ml)	Wt/2 cm Wt/3 cm	Every 12h Every 8 h
Unasyn, Unictam vial 375 mg 750 mg 1500 mg	+ 5cm saline → Wt cm + 5cm saline → Wt/2 cm + 5cm saline → Wt/4 cm	Every 12h

***Amoxicillin clavulanic**

- 25-50 mg / kg / day → dose of Amoxicillin
- **Augmentin, Curam, E-moxclav** (156mg/5ml) susp → 125mg amoxicillin
- **Augmentin, Curam, E-moxclav** (312mg/5ml) susp → 250mg amoxicillin
- **Augmentin, Curam, E-moxclav, Megamox** (457mg/5ml) → 400mg amoxicillin
- **Megamox** (228mg/5ml) susp → 200mg amoxicillin
- **Hibiotic** (460mg/5ml) susp → 400mg amoxicillin

156	Wt / 2 cm	Every 8 h
228	Wt / 3 cm	Every 8 h
312	Wt / 4 cm	Every 8 h
457,460	Wt/ 4 cm	Every 12 h

***Azithromycin (Macrolides)**

- 12 – 15 mg / kg / day → for 3 days
- 20 mg / kg / day → Typhoid → for 7 days

Zithromax , Zithrokan , Xithrone (200mg/5ml)	Wt/4 cm	Single dose before meal
Zithrokan (100mg/5ml)	Wt/2 cm	Single dose

***First Generation Chephalosporines**

- 50mg /kg/day

Duricef, Curisafe (125mg/5ml) susp	Wt cm	Every 12 h
Duricef, Biodroxil (250mg/5ml) susp	Wt /2 cm	Every 12 h
Biodroxil (500mg/5ml)susp	Wt / 4 cm	Every 12 h

***Second Generation Chephalosporines**

1. Cefaclor

- 20-40mg/kg/day

Ceclor, Bacticlor (125mg/5ml)susp	Wt /2 cm	Every 12 h
Ceclor, Bacticlor (250mg/5ml)susp	Wt /4 cm	Every 12 h

2. Cefuroxime

- 50-100mg/kg/day

Cefumax (250mg/5ml)susp	Wt/2 cm	Every 12 h
Zinnat (125mg/5ml)susp	Wt cm	Every 12 h
Zinnat vial	250,750,1500 mg	Every 12 h

***Third Generation Cephalosporines**

1. Ceftriaxone

- 50 mg/kg/day
- 100mg/kg/day in meningitis

Cefaxon, Ceftriaxone, Wintriaxon, Xoraxon 500mg	+5cm saline → Wt/2	Single /day
Cefaxon, Ceftriaxone, Wintriaxon, Xoraxon 1000mg	+5cm saline → Wt/4	Single /day

2. Cefotaxime, Ceftazidime

- 100mg/kg/day

Cefotax. Claforan, Fortum 250mg vial	+5cm saline → Wt cm	Every 12h
Cefotax. Claforan, Fortum 500mg vial	+5cm saline → Wt/2 cm	Every 12h
Cefotax. Claforan, Fortum 1000mg vial	+5cm saline → Wt/4 cm	Every 12h

3. Cefixime

- 8-14mg/kg/day

Suprax, Ximacef (100mg/5ml) susp	Wt /4 cm	Every 12h
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*Fourth Generation Cephalosporins

- 50-100mg/kg/day → iv

Maxipime, Wincef 500mg vial	+5cm saline → Wt/2	Every 12 h
Maxipime, Wincef 1000mg vial	+5cm saline → Wt/4	Every 12 h

*Aminoglycosides

- If used more than 7 – 10 days → renal function should be done & follow up is a must

1. Gentamicin

- 4mg/kg/day → IV

Gentamicin 80mg/2ml	1cm+19 cm glucose 5 % → 2cm/kg over 30 min	Every 24 h
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2. Amikacin

- 15 mg/kg/day

Amikin 100mg/2ml	1cm + 4cm saline → 1.5cm/kg	Every 24 h
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*Carbapenems

- Meronem has a meningitic & pseudomonal dose of 40 mg/kg/dose q8h,, but Tinam has NOT.
- Tinam may cause Convulsions
- Tinam is incompatible with Amikin, Gentamicin & Diflucan
- Meronem → 20 mg/kg/dose q8h
- Tinam → 20-25 mg/kg/dose q12h

Meronom 500 mg vial	+25 cm saline → Wt cm IV over 30 min	Every 8 h
Meronom 1000mg vial	+25 cm saline → Wt/2 cm IV over 30 min	
Tinam 500 mg vial	+25 cm saline → Wt cm IV over 30 min	Every 12h

*Co-trimoxazole

(trimethoprim+sulphamethoxazole)

- 4mg+20mg /kg/day)

Septtrin,Sutrim,Septazole susp (40mg+200mg/5ml)	Wt/2 cm	Every 12 h
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*Vancomycin

- Bacteremia → 10 mg/kg/dose IVI over 1h
- Meningitis → 15 mg/kg/dose IVI over 1h

Vancocin 500 mg vial	+100cm saline→2cm/kg	Every 8 h
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*Benzathine penicillin G

- 50000 unit/kg

Depo-pen vial	<27 kg → 1/2 vial >27 kg → vial	Every 3-4 weeks
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* Linezolid

- 10mg/kg/dose
- G+ve bacteria e.g. MRSA, and glycopeptide-resistant enterococci
- Some Anerobes e.g. C perfringens, C difficile, and Bacteroides fragilis
- Treatment is usually continued for 10-28 d
- Linezolid is not used as empiric treatment
- not active against: Common Gram negative organisms, Enterobacteriaceae and Pseudomonas aeruginosa

Averozolid susp(100 mg / 5 ml)	Wt/2 cm	Every 8 h
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Anti-tuberculous

*first line drugs

1. Isoniazid (INH)

- 10-15mg/kg/day

Isocid , Inhibix tab	50 mg	Single daily dose
Isocid forte tab	200 mg	Single daily dose

2. Rifampicin or Rifampin

- 10-20mg/kg/day on empty stomach

Rimactane, Rifam, Rifamox (100mg/5ml)	Wt/2 cm	One hour Before breakfast
Rifampicin, Rifampin cap	150 mg	One hour Before breakfast
Rifampicin, Rifampin, Rimactane cap	300 mg	breakfast

Rimactazid tab	150 mg isoniazid+ 300 mg rifampicin	Single daily dose
Rimactazid pediatric tab	60 mg isoniazid+ 60 mg rifampicin	Single daily dose

3. Pyrazinamide

- 20-40mg/kg/day

Piraldina , Pyrazinamide tab	500 mg	Single daily dose
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Rimcure pediatric tab	30 mg isoniazid+ 60 mg rifampicin+ 150 mg pyrazinamide
Rimcure tab	75 mg isoniazid+ 150 mg rifampicin+ 400 mg pyrazinamide

*Alternative drugs

1. Streptomycin (aminoglycoside)

- 20-40mg/kg/day → IM

Streptomycin vial 1000mg	+ 5cm saline→ 1cm/10kg	Single daily
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2. Ethambutol

- 15-20mg/kg/day → oral

Etibi tab	500 mg	Single daily
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Anti-viral

*Acyclovir

- 10-20mg/kg/dose
- Duration of therapy → 14 days (in localized infections) or 21 days (in disseminated or CNS infections)

Zovirax 250mg/5ml vial	1cm+9cm saline→ 4cm/kg IVI over 1 h	Every 8 h
Zovirax 200mg/5ml syrup	Wt/2 cm	Every 8 h
Zovirax tab	200 , 400 mg	Every 8 h

Anti-fungal

*Nystatin

- 100,000 unit/dose → oral
- Duration → 7-10 days

Mycostatin , Fungistatin , Nystatin drops	1 ml (droper)	Every 6 h
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*Miconazole

- 30mg/dose → infants
- 60mg/dose → children
- Duration → 7-10 days

Daktarin , Miconaz , Micoban oral gel(120mg/spoon)	1/4 spoon → infants 1/2 spoon → children	Every 6 h
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*Fluconazole

- LD = 12-25 mg/kg (we use 12)
- MD = 6-12 mg/kg/dose (we use 6) IVI over 30 min q24h

Diflucan (25mg/5ml) syrup	Wt/2 cm	Every 12 h
Diflucan IVI (100mg/50ml)	LD→ 6cm/kg+6cm/kg glucose 5% Over 30 min MD→ 3cm/kg+3cm/kg glucose 5% Over 30 min	Every 24 h

Anti-protozoal

***Metronidazole**

- Oral → 50mg/kg/day → Amoeba → 10 days
→ 25 mg/kg/day → Giardia → 7 days
- Infusion → LD → 15mg/kg/dose
→ MD → 7.5 mg/kg/dose

Flagyl , Amrizable (125mg/5ml) susp	Amoeba → (double Wt)/3 cm Giardia → Wt /3 cm	Every 8 h
Flagyl infusion (500mg/100ml)	LD → 3cm/kg MD → 1.5cm/kg	Every 8 h

***Diloxanide furoate**

- 20mg/kg/day
- Duration → 10 days

Furazol , Diloazole susp	Wt/3 cm	Every 8 h
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Anti-malarial

*Chloroquine phosphate

- 3 days treatment :
 1. Day 1 → initial dose : 10mg/kg
 - After 6 h : 5mg/kg
 2. Day 2 → one dose : 5mg/kg
 3. Day 3 → one dose : 5mg/kg

Chloroquine (80mg/5ml) syrup	Initial dose → double (Wt/3) cm Then → Wt/3 cm	As above
Chloroquine tab	150 mg	As above

Anti-helminthic

*Mebendazole

- Safe from first day of life & in pregnancy & lactation

Antiver , Vermin (100mg/5ml) susp	Oxyuris → 5ml before breakfast Askaris & Ankylostoma → 5ml	Every week for 3 weeks Every 12 h for 3 days
Antiver , Vermin 100mg tab	The same but one tab	The same

***Flubendazole**

- Same as mebendazole

Fluver , Fluvermal (100mg/5ml)	Same as mebendazole	Same as mebendazole
Fluver , Fluvermal 100mg tab	Same as mebendazole	Same as mebendazole

***Albendazole**

- Not safe in first 2 years of life & in pregnancy & lactation
- 400mg/dose

Alzental , Bendax (100mg/5ml)susp	Oxyuris→ 20ml before breakfast Askaris & Ankylostoma→ 20ml	Every week for 3 weeks Every 24 h for 3 days
Vermizole (200mg/5ml) susp	Oxyuris→ 10ml before breakfast Askaris & Ankylostoma→ 10ml	Every week for 3 weeks Every 24 h for 3 days
Alzental , Bendax , Vermizole 200mg tab	Oxyuris→ 2 tab before breakfast Askaris & Ankylostoma→ 2 tab	Every week for 3 weeks Every 24 h for 3 days

***Praziquantel**

- Bilharziasis → 40mg/kg single dose in middle of fatty meal repeated after 1week , after 1 month & after 6 months
- Strongloids & H.nana → 25mg/kg single dose

<i>Epiquantel</i> (600mg/5ml)	Bilharziasis → <i>wt/3</i> cm Strongloids & H.nana → <i>Wt/4</i> cm	<i>Single</i> dose
<i>Praziquantel ,</i> <i>Distocid</i>	<i>600</i> mg tab	<i>Single</i> dose

Corticosteroids

*Short Acting

- Duration → 4-6 h

1. Hydrocortisone

- Parenteral → 5-10mg/kg/dose – IV or IM
- Oral → 2mg/kg/day

Solu-cortef vial, Hydrocortisone amp (100mg/2ml)	IM → 1cm/10kg IV → vial + 10cm saline → Wt/2 cm	Every 6 h
Hydrocortone tab	10 , 20 mg	Every 6 h

2. Prednisone or Prednisolone

- Oral → 2mg/kg/day

Predsol (5mg/5ml)	Double Wt/3 cm	Every 8 h
Predsol forte (15mg/5ml)	Double Wt/6 cm	Every 8 h
Hostacorten tab	5 mg	

***Long Acting**

- Duration → 8-12 h

1. Dexamethasone

- Parenteral → 0.25-0.5mg/kg/dose – IV or IM
- Oral → 0.1-0.2mg/kg/day

Dexamethasone , Epidron , Fortecortin (8mg/2ml) amp	IM → 1cm/10kg IV → 1cm+3cm saline → Wt/4 cm	Every 12 h
Phenadone . Apidone (0.5mg/5ml) syrup	Wt/3 cm	Every 8 h

***Inhalation Corticosteroids**

1. Beclomethasone

- 100mcg/dose

Beclotide , Beclosone inhaler (50mcg/puff) (through the mouth for persistent asthma)	2 puffs	Every 6-8 h
Beconase spray (50mcg/puff) (through the nose for allergic rhinitis)	1-2 puffs	Every 12 h

2. Budesinide

- 100-200mcg/dose

Pulmicort Turbuhaler (100,200mcg/puff) (through the mouth for persistent asthma)	1 puff	Every 12 h
Pulmicort nebulization solution (250,500mcg/2ml)	250 → 1cm/5kg 500 → 1cm/10kg	

<i>Rhinocort spray</i> (50mcg/metered dose) (through the nose for allergic rhinitis)	1-2 puffs	Every 12 h
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3. Fluticasone

- 50-100mcg/dose

<i>Flixotide inhaler</i> (50mcg/puff) (through the mouth for persistent asthma)	1-2 puffs	Every 12 h
<i>Flixonase spray</i> (50mcg/metered dose) (through the nose for allergic rhinitis)	1-2 puffs	Every 12 h

Sedatives & Hypnotics

- Sedatives → relieves anxiety without impairing consciousness
- Hypnotics → induces sleep

***Chloral hydrate**

- 25-50 mg/kg/dose
- Short term use only (before CT)
- Onset within 10-15 min
- May cause bradycardia – Monitor HR

Chloral (500mg/5ml) syrup	Wt/2 cm	Single dose
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Anticonvulsant & Antiepileptic

***Diazepam**

- LD = 0.3 – 0.5 mg/kg/ dose
- MD = 0.1 – 0.2 mg/kg/dose as needed usually q 2-4 h

Valium , Neuril amp (10m/2ml)	1cm + 4cm saline → ٣. شربة انسولين/ كيلو الان ثم ١٠ شربة انسولين/ كيلو /٢-٤ ساعه
Diazepam rectal tubes	5 mg , 10 mg

***Phenobarbital**

- LD: 20 mg/kg IV slowly over 10-15 min, with refractory seizures
add 5 mg/kg doses, up to a total of 40 mg/kg
- MD = 3-4 mg/kg/dose q24h IV, IM, PO or PR (q12h probably unnecessary)

Sominaletta amp (40 mg/ml)	1cm + 4 cm saline→ Double Wt cm now , then Wt/2 cm	Every 24 h
Sominaletta Syrup (15 mg/ 5 ml)	Wt cm	Every 24 h
Sominaletta tab	15 , 60 mg	Every 24 h

*Phenytoin

- LD = 15-20 mg/kg/IVI over 30 min
- MD = 4 - 8 mg/kg/IVI q 12 h
- NOT used in central line – NOT used IM (extravasation & IM → necrosis)

Epanutin , Phenytoin (250mg/5ml) amp	1cm+9cm saline → 3-4cm /kg now over 30 min, then Wt cm	Every 12h
Epanutin , Ipanten (30mg/5ml) susp	Wt cm	Every 12h

*Midazolam

- Sedative dose
 - Shots → 0.05-0.15 mg/kg as needed, usually q 2-4 h IVI over 5 min
 - intranasal & sublingual route → 0.2 – 0.3 mg/kg/dose
 - IVI → 0.01-0.06 mg/kg/h (0.06 X 24 X weight) = (1.44 X weight)
- Anticonvulsant dose
 - LD = 0.15 mg followed by Maintenance IVI = 0.06-0.4 mg/kg/h

Dormicum , Midathetic amp (5mg/ml)	LD → 1cm + 4cm saline → ١٥ شرطة بـسرنجة انسولين/كيلو Maintenance IVI → 1cm + 4cm saline → 1.5 XWt cm تضاف على محاليل اليوم
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***Sodium Valporate**

- 20-30mg/kg/day

Convulex drops(300mg/ml) (10mg/drop)	1-2 drops	Every 12 h
Depakine syrup (288.2mg/5ml)	Wt/4 cm	Every 12 h

Inotropic Drugs

***Cardiac Glycosides**

1. Digoxin

- LD → 30-50 mcg/kg IV , IM , Oral by digitalization as follow:
 - 1/2 dose initially
 - 1/4 dose after 8 h
 - 1/4 dose after another 8 h
- Maintenance dose → 5-10 mcg/kg/day divided every 12 h

Lanoxin amp (0.5mg/2ml)	2cm + 8cm glucose 5 % → LD → <ul style="list-style-type: none">• Wt/2 cm initially• Wt/4 cm after 8 h• Wt/4 cm after another 8 h MD → Wt/10 cm every 12 h
Lanoxin pediatric elixir (50mcg/ml) (oral)	LD → <ul style="list-style-type: none">• Wt/2 cm initially• Wt/4 cm after 8 h• Wt/4 cm after another 8 h MD → Wt/10 cm every 12 h

***Sympathomimetic Catecholamines**

1. Adrenaline

- 0.01 – 0.03 mg/kg/dose → IV (Resuscitation)

Adrenaline amp (1mg/ml)	1 cm + 9 cm saline → 1cm / 10 kg
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2. Dopamine

- 2 – 5 mcg/kg/min → Renal dose
- 5 – 10 mcg/kg/min → Inotropic dose
- 10 – 20 mcg/kg/min → Vaso-constrictor

Dopamine amp (200 / 5ml)	10mcg/kg/min → ٣٦ وحدة انسولين/كيلو تستكمل حتى ٢٤ سم جلكوز ٥% وتعطي بمعدل ١ سم / الساعة
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3. Dobutamine

- 2-25 mcg/kg/min IVI

Dobutrex amp (250 / 5 ml)	10mcg/kg/min → ٢١ وحدة انسولين/كيلو تستكمل حتى ٢٤ سم جلكوز ٥% وتعطي بمعدل ١ سم / الساعة
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Anti-arrhythmic Drugs

***Drugs for Brady-arrhythmia**

1. Atropine

- IV (over 1 min) or IM: 0.01-0.03 mg/kg/dose q10-15min; Maximum total dose of 0.04 mg/kg
- ET: 0.01-0.03 mg/kg/dose immediately followed by 1 mL NS
- PO: begin with 0.02 mg/kg/dose q4-6h, may increase gradually to 0.09 mg/kg/dose

Atropine amp (1mg/ml)	1cm+9cm saline → 0.1 cm /kg
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***Drugs for supraventricular tachyarrhythmias**

1. Verapamil

- 0.1-0.2 mg/kg/dose → IV over 2 min

Isoptin amp (5mg/2ml)	1cm + 9cm saline → Wt/2 cm
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2. Propranolol

- Oral → 0.25 mg/kg/dose q6h → Then ↑ as needed to max of 3.5 mg/kg/dose q6h
- IV → 0.01 mg/kg/dose q6h → Then ↑ as needed to max of 0.15 mg/kg/dose q6h

Inderal 10 mg Tab	القرص يحل في ١٠ سم ماء مقطر ويعطى ربع الوزن	Every 6h
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Anti-hypertensive Drugs

*TTT of hypertensive crisis

1. Nifedipine

- 0.25-0.5 mg/kg/dose → sublingual or oral

Epilat , Adalat	10 mg , 20 mg	Repeated every 30-60 min if needed
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2. Furosemide

- 2mg/kg/dose → IV or IM

Lasix amp (20mg/2ml)	1cm+9cm saline → Wt cm	Every 12 h
Lasix tab (40mg)	1/2 tab + 10 cm sterile water → Wt/2 cm	Every 12 h

*TTT of non emergency hypertension

1. Captopril

- 0.01 – 0.05 mg/kg/dose Up to 0.5 mg/kg/dose q12h

Capoten 25 gm tab	1/2 tab + 12.5 cm sterile water → شرطة / كيلو	Every 12 h
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***Osmotic Diuretics**

1. Mannitol 20 %

- 5-10 ml/kg → IV (Over 30min)
- Rapid reduction of increased intracranial pressure & reduction of cerebral mass in case of edema

Mannitol 20 % (500ml bottle)	5-10 ml / kg	Every 6 h for 2-3 days
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Nasal decongestants

***Local (nasal)**

1. Oxymetazoline

Afrin ped , iliadin merck ped	1-2 drops	Every 12 h
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2. Xylometazoline

Otrivin ped , Balkis ped , Rhinex ped	1-2 drops	Every 8 h
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- ➔ These drops used in ➔ 3 months – 6 years
- ➔ Adult drops ➔ after 6 years
- ➔ Before 3 months use ➔ lyse , physiomer , otrivin baby saline nasal drops

***Systemic (oral)**

1. Decongestant + Antihistamine

Sine up , Balkis syrup	Wt/3 cm	Every 8 h
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2. Decongestant + Antihistamine + Antipyretic

Congestal syrup	Wt/3 cm	Every 8 h
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Cough Suppressants

***Herbal Suppressants**

Sina dry , Balsam , Herba cough syrup	< 1 year → 2.5 cm >1 year → 5 cm	Every 8 h
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***Chemical Preparations**

Cough cut , Sinecod syrup (good with asthma)	Wt/3 cm	Every 8 h
Tussivan N syrup Tusscapine syrup	Wt/3 cm	Every 8 h
Sinecod , Selegon drops	1 drop / kg / day	Before sleeping

***Suppositories for dry cough**

Selegon supp	1 supp → 10kg	Before sleeping
Coughseed supp	<2years → infantile >2years → children	Before sleeping

Mycolytic Expectorant

***Herbal Preparations**

- < 1 year → **2.5** cm
- > 1 year → **5** cm
- صباحا وعصرا

Sinuc syrup (mild)
Sina-wet , Bronchicum syrup(moderate)
Broncho syrup (strong)

***Chemical Mycolytic**

Bisolvon , Solvin , Ambroxol , Ultrasolve Mucosolvin , Bronchopro syrup	Wt/3 cm	Every 8 h
Bisolvon , Solvin , Ambroxol drops	1 drop/kg	Every 8 h
Osipect , Allvent syrup (Mycolytic + Expectorant + B2 agonist)	Wt/3 cm	Every 8 h

Bronchodilators

***Selective B2 agonist**

1. Salbutamol

- 0.1-0.3mg/kg/dose PO q6-8h
- 0.1-0.5 mg (0.02-0.1 mL)/kg/dose q2-6h via nebulizer
- 100-200mcg/dose → inhalation

Ventolin , Vental , Farcoline , Salbovent syrup (2mg/5ml)	Wt/4 cm	Every 6-8 h
Ventolin , Vental inhaler (100mcg/puff) Ventolin diskus (200mcg/puff)	1 puff	Every 6-8 h
Ventolin , Farcolin nebulizer solution (5mg/ml)	0.5cm + 2.5cm saline	Every 6-8 h

2. Terbutaline

- 0.1-0.2mg/kg/day → oral
- 200mcg/dose → inhalation

Aironyl , Bricanyl syrup (1.5mg/5ml)	Wt/4 cm	Every 8 h
Bricanyl inhaler (200mcg/puff)	1 puff	Every 8 h

*Anticholinergic drugs

1. Ipratropium

- 75-175 mcg via jet nebulizer q6-8h
- 25 mcg/kg/dose via nebulizer q8h

Atrovent inhaler Combivent inhaler	1-2 puff	Every 6 h
Atrovent , Combivent (250 ,500 mcg/2ml) Nebulization solution	<ul style="list-style-type: none">• 250 →(1cm/5kg) +2cm saline• 500→(1cm/10kg)+2cm saline	Every 6 h

*Methylxanthine dervatives

- Theophylline
 - LD: 8 mg/kg IVI over 30 min or PO
 - MD (8-12h Later): 1.5-3 mg/kg/dose PO or IV q8-12h

Aminophylline (125,250 mg/5 mL) Amp		Every 8 h
Minophylline , Etaphylline , Epicophylline (100mg/5ml)	1cm / 10kg	Every 8 h

*Caffeine Citrate

- LD: 20-25 mg/kg IV over 30 min or PO
- MD: 5-10 mg/kg/dose q24h IV slowly or PO
- Idiopathic Apnea of Prematurity

Caffeinospire (20 mg/ml) vial	LD→ Wt cm MD→ Wt/4 cm	Every 24 h
Caffeinospire (20 mg/ml) oral solution	The same above	Every 24 h

Asthma Controllers

***Inhaled corticosteroids**

- As before

***Long acting B2 agonist**

- Salmeterol
 - 25-50mcg/dose → inhalation

Serevent , Metrovent inhaler (25mcg/puff)	1 puff	Every 12 h
Serevent , Metrovent discus (50mcg/puff)		
Seretide discus,inhaler (100,250,500) (corticosteroid+salmeterol)	1 puff	Every 12 h

***Leukotriene Modifiers**

- Montelukast
 - **2 months – 6 years** → **4 mg** (sachets)
 - **6 years – 15 years** → **5mg** (chewable tabs)
 - **> 15 years** → **10mg** (swallowed tabs)

Singular (4mg) sachet	1 sach	Once daily at night
Singular , Montekal chew tab (5mg)	1 chew tab	Once daily at night
Montekal , Clear air tab(10mg)	1 tab	Once daily at night

Drugs for Hyperacidity

***Antacids**

Maalox , Mucogel , Epicogel susp	<2years → 5 cm >2years → 10-15 cm	Every 6-8 h before eating
Maalox , Acicone chewable tab	For older children → 1 tab	Every 6-8 h

***H2 receptors antagonists**

1. Ranitidine

- 2 mg/kg/dose PO q8h (max. 3 mg/kg q8h)
- (Term) 1.5 mg/kg/dose q8h IV slow push
- (Preterm) 0.5 mg/kg/dose q12h IV slow push

Zantac amp(50mg/2ml)	1cm+12cm saline → Wt/2 cm	Every 8-12 h
Zantac tab	150 , 300 mg	Every 8 h

2. Famotidine

- 0.25-0.5 mg/kg/dose IV q24h
- 0.5-1 mg/kg/dose PO q24h

Antodine (20mg/2 mL) amp	1cm+9cm saline → Wt/2 cm	Every 24 h
Antodine tab	20 , 40 mg	Every 24 h

Antiemetic Drugs

1. Domperidone

- 0.3 mg/Kg/dose

Motinorm ,Motilium Susp(5mg/5ml)	Wt/3 cm	Every 8 h
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2. Ondansetron

- 8 – 15 kg → 2mg/dose
- 15 – 30 kg → 4mg/dose
- > 30 kg → 8 mg/dose

Danset , Zofran , Danofran amp	4 , 8 mg	Every 12 h
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3. Trimebutine

- 5 – 10 mg/kg/day
- Mainly in GERD

Gast-reg susp	Wt/3 cm	Every 8 h
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Spasmolytic & Antiflatulant

***For neonates & young infants**

Pedia water , Grip water syrup	2.5 – 5 cm	Every 6-8 h before feeding
Simethicone , Baby rest drops	2 drops/kg/dose	Every 6-8 h before feeding

***For children > 2 years**

Viceralgine , Buscopan syrup	Half Wt/3 cm	Every 8 h
Viceralgine amp	1 cm → 20 kg	Up to 4 times/day
Buscopan amp	1 cm → 40 kg	Once daily

Antidiarrheal drugs

Aqua ream z , Zinc origin syrup	< 6 months → 2.5 cm >6 months → 5 cm	Once daily For 10-14 d
Hydrosafe , Rehydro zinc pack		
Antinal , Streptoquine	<ul style="list-style-type: none"> • Late infancy & early childhood → 5 cm • Late childhood → 10 cm 	Every 8 h

Laxative drugs

Duphalac , Lactulose syrup	Wt/4 cm	Every 12 h
Laxomag susp	Wt/2 cm	Once before sleeping
Picolax , Normalax drops	1 drop/kg → max 15 drops	When needed
Glycerine sup	700 mg → <2years 1400 mg → >2years	When needed

Antihistamines

➤ From first day of life

Fenestil drops	1 drop / kg /day	Every 12 h
Fenestil syrup	Wt / 4 cm	Every 12 h

➤ > 6 months of life

Zyrtec drops	1 drop / kg	Every 24 h before sleeping
Zyrtec , Histazine , Cetrak syrup	Wt/2 cm	Every 24 h before sleeping

➤ > 1 year of life

Claritine syrup	Wt/2 cm	Every 24 h before sleeping
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➤ > 2 years of life

Evastine syrup	Wt/2 cm	Every 24 h before sleeping
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Avil retard amp (45mg/2ml)	1 cm → 40 kg	Every 12 h
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- All Antihistaminic are contraindicated in BA & Acute bronchitis except **Claritine & Evastine**

Hormonal Therapy

1. Thyroid hormone (L-thyroxine)

- **10-15 mcg/kg/day** → **neonatal** period
- **8-10 mcg/kg/day** → **infancy**
- **4-6 mcg/kg/day** → **childhood**

Eltroxin tab	50 , 100 mcg	Every 24 h
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2. Insulin

- Rapid acting insulin (regular)
 - DKA → IVI at a rate of 0.1 unit / kg / h until glucose level of 300mg/dl then discontinue infusion & give insulin subcutaneous in dose of 0.2 – 0.4 unit/kg every 6-8 h for 24 h
 - Mangment of ordinary case → 0.5-1 unit/kg/day , 1/3 of dose is regular insulin & 2/3 is intermediate insulin

Actrapid human insulin	40 , 100 units/ml
Humulin R human insulin	40 , 100 units/ml
Humulin R human insulin pen fill	100 units/ml

- Intermediate acting insulin

Monotard human insulin	40 , 100 units/ml
Humulin N human insulin	40 , 100 units/ml
Humulin N human insulin pen fill	100 units/ml

3. Antidiuretic hormone

- Desmopressin
- 0.1-0.2 mg

Minirin tab (0.1 , 0.2) mg	1-2 tab	Once daily before sleeping
Minirin nasal spray (10mcg/puff)	1-2 puffs	Once daily before sleeping

Vitamins and Minerals

1. Vitamin C

- Prophylactic → 25 - 35 mg/day
- Therapeutic → 100-200mg/day

Cevilene drops (100mg/ml)(5mg/drop)	<ul style="list-style-type: none">• Prophylactic → 5 drops• Therapeutic → 10 drops	Once daily Every 8 h
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2. Vitamin D

- Prophylactic → 400iu / day
- Therapeutic → 3000-5000 iu / day orally for 3 weeks
→ 600,000 iu/dose-IM – once

Vidrop (100iu/drop)	4 drops	Once daily
Pedical syp. (400iu + 50 mg ca /5ml)	5 cm	Once daily
Decal B12 syp , Vitacal syp , Calcical syp. (1000u/5ml)	5-10 cm	Every 8 h
Devarol-S amp (600,000u/ml)	Amp	Once not repeated

3. Vitamin K

- Prophylactic → 1 mg → IM → once
- Therapeutic → 5-10 mg → IM , IV

Konakion MM pediatric amp. (2mg/0.2ml)	1/2 amp	At birth
Konakion amp (10mg/ml)	1/4 – 1/2 amp	Every 12 h

4. Vitamin B complex

Beco- C or Medivit syp	5 cm	Prophylactic → once daily Therapeutic → Every 8 h
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5. Multivitamins

Bebe-vit drops	Prophylactic → 5-10 drops Therapeutic → 1/2 -1 droper	Once daily Every 12 h
Fruital, Polvital , Totavit syp	5 cm	Once daily

6. Iron

- Prophylactic → 2mg/kg/day
- Therapeutic → 6 mg/kg/day

Hydroferrin drops (50 mg/ml)	Prophylactic → 1/4 droper Therapeutic → 0.6 droper/10kg	Once daily Every 12 h
Ferose syp (50mg/5ml)	3cm / 10kg	Every 12 h

7. Calcium

- Oral dose → 40-80mg/kg/day
- IV dose → 100-200mg/kg/day

Pedical , Cal-D-B12 syp (50mg/5ml)	Wt/2 cm	Every 12 h
Ca gluconate amp. 10% (100mg/ml)	<ul style="list-style-type: none">• Maintenance dose = 0.5 - 1 ml/kg• In hypocalcaemia = 1 – 2 ml/kg	Every 6 h

8. Magnesium

- Resuscitation (Pulseless Torsades) → 25-50 mg/kg
IV/intraosseous rapid infusion
- Hypomagnesemia → 25-50 mg/kg IVI over 30-60 min; q8-12h for 2-3 doses

Magnesium sulphate 50% (500mg/ml)	0.1 cm/kg	Every 8-12 h
Magnesium sulphate 10% (100mg/ml)	0.5 cm/kg	Every 8-12 h

9. Potassium

- Oral dose → 2-4 mEq/kg/day

Potassium syp. 15% (10mEq/5ml)	Wt/3 cm	Every 8 h
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Eye medications

- **Antibiotics**

Tobrin eye drops	1-2 drops	Every 6 h
Tobrex eye ointment		Once daily b4 sleeping

- **Decongestants**

Prisoline or Nostamine E/N drops	1-2 drops	Every 6 h for 4 days
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- **Anti-allergic**

Alomide or Epichrome eye drops	1-2 drops	Every 8 h
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- **Corticosteroids**

Isopto-Maxidex eye drops	1-2 drops	Every 6 h
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- **Corticosteroids+ antibiotics**

Tobradex , Isopto-Maxitrol eye drops	1-2 drops	Every 6 h
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Ear Medications

- **Analgesic**

Otocalm or Otal ear drops	1-2 drops	Every 6 h
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- **Wax softeners**

Remowax or Ear wax ear drops	1-2 drops	Every 6 h
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- **Antibiotics**

Otoxin or Otophenicol ear drops	1-2 drops	Every 6 h
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- **Corticosteroids+ Antibiotics**

Dexatrol E/E drops	1-2 drops	Every 6 h
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Topical Medication

***Protective agent**

- ***Zinc olive lotion***
- ***Baby cream***

***Soothing agent**

- ***Calamyl lotion***
- ***Calamine lotion***

***Topical Antibiotics**

- ***Garamycin ointment***
- ***Fucidin cream***

***Topical Antifungals**

- ***Daktarin cream***
- ***Miconaz cream***
- ***Candistan cream***
- ***Mycostatin baby cream***

***Topical antiparasitic**

- ***Scabine lotion or cream 1%***
- ***Licid , No lice lotion***

***Topical Corticosteroids**

1. Mild to Moderate

- ***Dermatop cream***
- ***Perderm cream***
- ***Hydrocortison cream***

2. Strong

- ***Betaderm cream***
- ***Betnovate cream***
- ***Elecon cream***

3. Steroids and Antimicrobial combinations

➤ Hydrocortisone + Miconazole

- ***Daktacort cream***

➤ Betamethasone + Miconazole + Neomycin

- ***Polyderm cream***

➤ Betamethasone + Clioquinol + Gentamicin + Chlorocresol

- ***Quadriderm cream***

***Burns Preparations**

- ***Dermazin cream***

***Oral Analgesics**

- ***Dentinox teething gel***
- ***Oracure gel***
- ***Dentocalm paint***
- ***BBC spray***

Miscellaneous drugs

Immulant syp.(90mg/5ml)	5-10 cm	Every 12 h
Immulant cap.(200mg)	1 cap	Every 12 h
Hepaticum syp.(50 mg/5ml)	Wt/2 cm	Every 12 h
Digestin syp	1-3 years → 2.5 cm 3-12 years → 5 cm	Every 8 h
Uripan syp. (5mg/5ml) or tab. (5mg)	5-10 cm	B4 sleeping
Ursogall syrup(250 mg/ 5ml)	Wt/2 cm	Every 12 h
Lacteol forte Sachets	0.5-1 sach + 5cm sterile water	Every 12 h
Cholestran Sachets	+ 10 cm sterile water → Wt cm	Every 12 h
Folic acid tab	1/2 tab + 12 cm sterile water → Wt/3 cm	2 times /week
L-Carnitine drops 300 mg/ml	1/4 droper /kg	Once daily

Blood products

Packed RBCs	5 – 20 ml/kg	Every 24 h
Fresh Frozen Plasma	10 – 20 ml/kg	Every 24 h Every 12 h in DIC
Platelets	5 – 10 ml/kg	Every 24 h
Cryoprecipitate	5 – 10 ml/kg	
IVIG 1 gm 2.5gm	500 – 900 mg/kg over 3 h	After 24 h if needed